CompTIA Security+ ITAG: Documentation of Credential and Alignment

Credential Comp		pTIA Security+ SYO-601	
Name:		,,,,,,,,	
Credential	X Ce	X Certification	
Туре:	□ Li	cense	
Issuer of	CompTIA		
Credential:		·	
Frequency	Every 3 Years		
of Updates:			
Exam(s)	CompTIA Security+ SYO-601 - https://www.comptia.org/certifications/security		
Required:			
Additional			
Requiremen			
ts:			
Current	https	https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/transfer/CT2/IT_SCT	
CTAG/TAG:	AI_Ali	ign_2016.pdf	
(if			
applicable)			
Description of content to be evaluated and aligned:			
How long after		3 Years	
attainment can			
credit be			
awarded?			
How can		Provide proof of credential	
receiving		https://help.comptia.org/hc/en-us/articles/115005190103-Provide-Verification-	
institutions veri		of-Your-CompTIA-Certifications	
credential			
attainment?			

Course Name: Security Fundamentals or equivalent

Credit Hours: 3 hours

Course Description: A current overview of both network and Internet based security practices and conventions; including planning, implementing, and managing network security. Through an exploration of security technologies, vulnerability assessment and attack methods this course offers methods to minimize potential security risks by means of organizational policy, education and technology

	Postsecondary Learning Outcomes	CompTIA Security+ Exam Obj
		#s refer to CompTIA Content Numbering System
1.	Implement practices to properly harden	2.3 Summarize secure application development,
	operating systems and application software	deployment, and automation concepts.
	on a continuing basis.	3.1 Given a scenario, implement secure protocols
	-	3.2 Given a scenario, implement host or application
		security solutions.
		3.4 Given a scenario, install and configure wireless
		security settings.

		3.5 Given a scenario, implement secure mobile solutions.5.1 Compare and contrast various types of controls.
2.	Identify commonly used ports and protocols, in both wired and wireless communications, their vulnerabilities and methods to mitigate those vulnerabilities.	3.1 Given a scenario, implement secure protocols 3.3 Given a scenario, implement secure network designs. 3.4 Given a scenario, install and configure wireless security settings. 3.5 Given a scenario, implement secure mobile solutions.
3.	Identify and implement software and hardware tools (IP scanning, packet sniffing, and others) to increase network security.	3.3 Given a scenario, implement secure network designs. 2.7 Explain the importance of physical security controls. 2.6 Explain the security implications of embedded and specialized systems.
4.	Conduct risk and vulnerability assessments and implement appropriate plans to mitigate common risks and vulnerabilities.	1.1 Compare and contrast different types of social engineering techniques. 1.2 Given a scenario, analyze potential indicators to determine the type of attack. 1.3 Given a scenario, analyze potential indicators associated with application attacks. 1.4 Given a scenario, analyze potential indicators associated with network attacks. 1.5 Explain different threat actors, vectors, and intelligence sources 1.6 Explain the security concerns associated with various types of vulnerabilities. 1.7 Summarize the techniques used in security assessments. 1.8 Explain the techniques used in penetration testing.
5.	Implement procedures to properly log system events, review those logs and audit security settings on a regular basis.	4.5 Explain the key aspects of digital forensics.
6.	Explain and implement redundancy planning, disaster recovery and incident response as means to provide business continuity.	2.5 Given a scenario, implement cybersecurity resilience 4.3 Given an incident, utilize appropriate data sources to support an investigation. 4.4 Given an incident, apply mitigation techniques or controls to secure an environment. 5.4 Summarize risk management processes and concepts.
7.	Explain the impact of organizational policy, state and federal legislation, and	2.1 Explain the importance of security concepts in an enterprise environment.

	planning.	4.1 Given a scenario, use the appropriate tool to assess organizational security 4.2 Summarize the importance of policies, processes, and procedures for incident response. 5.1 Compare and contrast various types of controls. 5.2 Explain the importance of applicable regulations, standards, or frameworks that impact organizational security posture. 5.3 Explain the importance of policies to organizational security. 5.5 Explain privacy and sensitive data concepts in relation to security
8.	discretionary, mandatory and rule based	2.4 Summarize authentication and authorization design concepts.3.7 Given a scenario, implement identity and account management controls.
9.	password based, biometric and certificate-based models.	2.4 Summarize authentication and authorization design concepts.3.7 Given a scenario, implement identity and account management controls.3.8 Given a scenario, implement authentication and authorization solutions.
10.		2.8 Summarize the basics of cryptographic concepts. 3.9 Given a scenario, implement public key infrastructure.
11.		3.3 Given a scenario, implement secure network designs.
12.	Cloud concepts	2.2 Summarize virtualization and cloud computing concepts3.6 Given a scenario, apply cybersecurity solutions to the cloud.